

Name: _____

at1113exam: Expand, factor, and solve quadratics (v340)

1. Expand the following expression into standard form.

$$(4x + 5)^2$$

2. Solve the equation.

$$(8x + 7)(5x - 6) = 0$$

3. Expand the following expression into standard form.

$$(7x + 2)(7x - 2)$$

4. Expand the following expression into standard form.

$$(8x - 7)(5x + 3)$$

5. Solve the equation.

$$7x^2 + 13x - 49 = 2x^2 - 3x - 4$$

6. Factor the expression.

$$x^2 + x - 12$$

7. Factor the expression.

$$9x^2 - 49$$

8. Solve the equation with factoring by grouping.

$$15x^2 + 20x + 6x + 8 = 0$$